

Constitutive Modelling Of Granular Materials

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Since granular materials like sands usually lack a unique, natural stress-free state, the critical state is important for constitutive modelling as it provides a useful reference state to characterise the granular materials under shearing.

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Highlights. A novel constitutive modelling framework (?-GM) for granular materials is developed based primarily on micromechanical considerations. The constitutive model is founded on the decomposition of particle-scale mechanisms into dissipative and non-dissipative, which is different from common elastic/plastic dichotomy. By including only three calibration parameters, the ?-GM constitutive model is shown to successfully predict stress-strain response, as well as the evolution of key ...

?-GM: A purely micromechanical constitutive model for ...

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The constitutive model is defined according to a parallel scheme, where stresses are given by the sum of two contributions, separately accounting for force chains and collisional micro-structural mechanisms (disregarding both crushing and damage of grains).

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ENGINEERING MATERIALS AND CONSTITUTIVE MODELING In this chapter we give a brief introduction to the particular ?eld within applied solid me-chanics that deals with the establishment of constitutive models for engineering materials. ... granular materials) under various loading conditions is reviewed.

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Moving on to the application of constitutive models, it presents a modeling platform with a practical, simple interface, which includes various kinds of tests and constitutive models ranging from clay to sand, that is used for simulating most kinds of laboratory tests.

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Granular materials are the most recurrent form of solid-state matter on Earth. They challenge researchers and engineers in various fields not only because they occur with a broad variety of grain sizes, shapes and interactions in nature and industry, but also because they show a rich panoply of mechanical states.

Modeling Granular Materials: Century-Long Research across ...

Constitutive models are the key-stone not only for understanding the mechanical behaviour of granular materials (mainly soils but also other granulates such as sugar, wheat, coal, pellets) but also for carrying out numerical predictions by means of the finite elements method.

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Houlsby, G.T. (1996) "Derivation of Incremental Stress-Strain Response for Plasticity Models Based on Thermodynamic Functions", Proceedings of the International Union of Theoretical and Applied Mechanics (IUTAM) Symposium on Mechanics of Granular and Porous Materials, Cambridge, 15-17 July, Kluwer Academic Publishers, ISBN 0-7923-4553-3, pp 161-172.

Publications on Constitutive Modelling for Soils ...

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